

Abstract

A manually actuated input device for commanding machine-and/or computer-assisted control operations for kinematic motions of a real or virtual multipart object, including a force/moment sensor with which linear displacements in the form of translational movements in the direction of three axes (X, Y, Z), each standing perpendicular on the other, of a three-dimensional rectangular system of coordinates and/or rotational excursions in the form of rotational motions (A, B, C) about these three axes are sensed and converted into commanded motions of the object to be controlled is characterized by the commanded individual linear displacements and/or rotational excursions of the force/moment sensor being assigned specific kinematic motion patterns of parts of the real or virtual object thereby permitting manipulation or animation thereof as a transforming interlink and by the commanded velocities of the corresponding individual linear displacements and/or rotational excursions of the force/moment sensor being additionally weightable as a kinematic interlink assignment. The invention can be put to use e.g. in kinematic animation operations of human-like robots, figures or virtual animate beings.

Fig. 1

09003361-061901